

## ABSTRACT

**Channel Estimation in a Multi Carrier Transmit Diversity System**

5

A method and a circuit (44) for estimating channel coefficients in a multi carrier transmit diversity system operating in accordance with a block-coding scheme is described. The method comprises determining from a receive signal ( $\mathbf{Y}$ ) for each channel estimated channel coefficients ( $\hat{\mathbf{h}}$ ) comprising interference components from adjacent channels artificially introduced during the estimation, deriving estimates for interference components and determining interference-compensated estimates ( $\hat{\mathbf{H}}_{F+IC}$ ) for the channel coefficients on the basis of the estimates for the interference components.

10

15 (Fig. 10)

6098